

THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:

1. A trunk rotation apparatus, comprising:

5 a support;
 a gripping bar;
 a mounting for mounting the gripping bar to the support
for translation movement.

10 2. The trunk rotation apparatus as defined in Claim 1, wherein
the mounting includes a universal joint permitting pivotal
movement of the gripping bar about a first substantially
horizontal axis and pivotal movement about a second
15 substantially horizontal axis, the second horizontal axis being
substantially perpendicular to the first horizontal axis,
thereby simultaneous translation through two planes.

20 3. The trunk rotation apparatus as defined in Claim 1, wherein
the gripping bar is arcuate with a first end, a second end and
a central mounting point equidistant between the first end and
the second end, the arcuate gripping bar being oriented
relative to the support to position the first end and the
second end farther away from the support than is the central
mounting point.

25 4. The trunk rotation apparatus as defined in Claim 1, wherein
the support is adapted for mounting to an overhead structure.

30 5. The trunk rotation apparatus as defined in Claim 1, wherein
the support expands and contracts to lower and raise the
gripping bar, thereby adjusting a height of the gripping bar
to suit a user.

35 6. The trunk rotation apparatus as defined in Claim 1, wherein
the support includes a peripheral mounting, a hub, and several
arms securing the hub to the peripheral mounting.

7. The trunk rotation apparatus as defined in Claim 6, wherein

8. The trunk rotation apparatus as defined in Claim 6, wherein
5 there are three arms.

9. A trunk rotation apparatus, comprising:

a support;

a gripping bar;

5 a mounting for mounting the gripping bar to the support for translation movement, including a universal joint permitting pivotal movement about a first substantially horizontal axis and pivotal movement about a second substantially horizontal axis, the second horizontal axis being
10 substantially perpendicular to the first horizontal axis.

10. The trunk rotation apparatus as defined in Claim 9, wherein the gripping bar is arcuate with a first end, a second end and a central mounting point equidistant between the first end and the second end, the arcuate gripping bar being oriented
15 relative to the support to position the first end and the second end farther away from the support than is the central mounting point.

20 11. The trunk rotation apparatus as defined in Claim 9, wherein the support includes a peripheral mounting ring adapted for mounting to an overhead structure, a depending hub supporting the mounting for the gripping bar, and three arms pivotally mounted for movement about a substantially horizontal
25 axis to the peripheral mounting ring and pivotally mounted for movement about a substantially horizontal axis to the hub, thereby securing the hub to the peripheral mounting ring, each of the arms being telescopically extendible, wherein the support expands and contracts to raise and lower the gripping
30 bar, means being provided to lock the arms in a selected telescopic position.

12. The trunk rotation apparatus as defined in Claim 11, wherein each of the arms has a first portion and a second
35 portion, the first portion telescopically mating with the second portion, a means being provided to lock the first portion and the second portion in a selected telescopic

position.

13. The trunk rotation apparatus as defined in Claim 11,
wherein the first portion has a first series of transverse
5 apertures and the second portion has a second series of
transverse apertures, a locking pin extending through a
selected one of the first series of apertures and a selected
one of the second series of apertures to lock the first portion
and the second portion in a selected telescopic position.

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14. A trunk rotation apparatus, comprising:

a support including a peripheral mounting ring adapted for mounting to an overhead structure, a depending hub, and three
 5 arms pivotally mounted for movement about a substantially horizontal axis to the peripheral mounting ring and pivotally mounted for movement about a substantially horizontal axis to the hub, thereby securing the hub to the peripheral mounting ring, each of the arms being telescopically extendible, wherein
 10 the support expands and contracts to raise and lower the hub, thereby permitting a height of the gripping bar to be adjusted relative to an underlying floor, each of the arms having a first portion with a first series of transverse apertures and a second portion with a second series of transverse apertures,
 15 the first portion telescopically mating with the second portion, a locking pin extending through a selected one of the first series of apertures and a selected one of the second series of apertures to lock the arm in a selected telescopic position;

20 an arcuate gripping bar a fixed distance from the support, the gripping bar having a first end, a second end and a central mounting point equidistant between the first end and the second end, the arcuate gripping bar being oriented relative to the support to position the first end and the second end farther
 25 away from the support than the central mounting point;

a mounting for mounting the gripping bar to the hub of the support for translation movement, including a universal joint permitting pivotal movement about a first substantially horizontal axis and pivotal movement about a second
 30 substantially horizontal axis, the second horizontal axis being substantially perpendicular to the first horizontal axis.